

**RETRACTABLE RAMP SYSTEM FOR A MOBILITY VEHICLE****ABSTRACT OF THE DISCLOSURE**

5           A retractable ramp system **10** for a mobility vehicle. A ramp platform **12** is driven by a reversible motor **86**, associated drive pulley **88**, and drive belt **18** affixed to a ramp carriage assembly **14**. A spring-loaded mechanical release assembly **98** is used to engage the drive pulley to the motor and to disengage the drive pulley from the motor. A manual control assembly is used for manual deployment of the ramp when the drive  
10 pulley is disengaged from the motor. Ramp flap **52** provides a transition between ramp platform **12** and a mobility vehicle. Ramp flap is supported by wheels **54** which translate along ramp platform **12**. Linear bearing blocks **30** attach to pivot arms **44** of the carriage assembly, which are in turn pivotably attached to ramp platform **12**. Linear bearing blocks **30** translate ramp platform **12** along guide shafts **32** during deployment  
15 and stowage.